

**Iowa Department of Natural Resources  
Title V Operating Permit**

**Name of Permitted Facility: Central Iowa Power Cooperative  
- Fair Station**

**Facility Location: 3800 Hwy. 22, Muscatine, IA 52761**

**Air Quality Operating Permit Number: 98-TV-001R2**

**Expiration Date: June 23, 2014**

**Renewal Application Deadline: December 23, 2013**

**EIQ Number: 92-0872**

**Facility File Number: 70-08-003**

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**Responsible Official**

**Name: Richard L. Anderson**

**Title: Vice President of Utility Operations**

**Mailing Address: 1400 Hwy. 13 SE, P.O. Box 2517, Cedar Rapids, IA 52403**

**Phone #: 319-366-8011**

**Permit Contact Person for the Facility**

**Name: Greg W. Jones**

**Title: Plant Superintendent**

**Mailing Address: 3800 Hwy. 22, Muscatine, IA 52761**

**Phone #: 563-381-2062**

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This permit is issued in accordance with 567 Iowa Administrative Code Chapter 22, and is issued subject to the terms and conditions contained in this permit.

**For the Director of the Department of Natural Resources**

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Douglas A. Campbell, Supervisor of Air Operating Permits Section

Date

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## Abbreviations

acfm.....	actual cubic feet per minute
CFR.....	Code of Federal Regulation
CE .....	control equipment
CEM.....	continuous emission monitor
°F .....	degrees Fahrenheit
EIQ.....	emissions inventory questionnaire
EP .....	emission point
EU .....	emission unit
gr./dscf .....	grains per dry standard cubic foot
IAC.....	Iowa Administrative Code
IDNR.....	Iowa Department of Natural Resources
MVAC.....	motor vehicle air conditioner
NAICS.....	North American Industry Classification System
NSPS .....	new source performance standard
ppmv .....	parts per million by volume
lb./hr .....	pounds per hour
lb./MMBtu .....	pounds per million British thermal units
SCC.....	Source Classification Codes
scfm.....	standard cubic feet per minute
SIC.....	Standard Industrial Classification
TPY .....	tons per year
USEPA.....	United States Environmental Protection Agency

### Pollutants

PM.....	particulate matter
PM <sub>10</sub> .....	particulate matter ten microns or less in diameter
SO <sub>2</sub> .....	sulfur dioxide
NO <sub>x</sub> .....	nitrogen oxides
VOC.....	volatile organic compound
CO .....	carbon monoxide
HAP.....	hazardous air pollutant

# I. Facility Description and Equipment List

Facility Name: Central Iowa Power Cooperative – Fair Station

Permit Number: 98-TV-001R2

Facility Description: Electric Generation Plant

Equipment List			
Emission Point Number	Associated Emission Unit(s) Number (s)	Associated Emission Unit Description	IDNR Construction Permit Number
EP1	EU1	Unit 1 PC Boiler <sup>(1)</sup>	73-A-146-S
EP2	EU2	Unit 2 PC Boiler	73-A-147
EP4	EU4	Fly Ash Silo	76-A-135
EP5	EU5	Coal Storage Pile	
EP8	EU8	Coal Handling Vent	
EP9	EU9	Coal Bunker Vent	
EP10	EU10	Coal Transfer Hopper	
EP11	EU11	Coal Transfer Pit	
EP12	EU12	Bulldozing Coal	
Insignificant Equipment List			
Insignificant Emission Unit Number	Insignificant Emission Unit Description		
EU3	Heating Boiler <sup>(1)</sup> (natural gas/diesel fired 3.5 MBtu)		
EU6	Emergency Generator (225 BHP)		
EU7	Emergency Fire Pump (142 BHP)		
IEU1	1,000 Gallon Diesel Fuel Storage Tank		
IEU2	520 Gallon Gasoline Storage Tank		
IEU3	5,500 Gallon Dilute Hydrochloric Acid Storage Tank		
IEU4	1,200 Gallon Turbine Lubrication Oil Storage Tank		
IEU5	1,400 Gallon Turbine Lubrication Oil Storage Tank		
IEU6	850 Gallon Eliminox Water Treatment Storage Tank		
IEU7	850 Gallon Acti-brom 1318 Storage Tank		
IEU8	750 Gallon Sodium Hypochlorite Storage Tank		
IEU9	550 Gallon Sodium Bisulfite Storage Tank		

<sup>(1)</sup> NESHA:

These emission units were affected sources under 40 CFR 63 Subpart DDDDD - NESHA for Industrial, Commercial and Institutional Boilers and Process Heaters. This Subpart was officially vacated by the EPA as of July 30, 2007. See the Plant-Wide Conditions section below for details.

## II. Plant-Wide Conditions

Facility Name: Central Iowa Power Cooperative – Fair Station  
Permit Number: 98-TV-001R2

Permit conditions are established in accord with 567 Iowa Administrative Code rule 22.108

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### Permit Duration

The term of this permit is: 5 years  
Commencing on: \_\_\_\_, 2009  
Ending on: \_\_\_\_, 2014

Amendments, modifications and reopenings of the permit shall be obtained in accordance with 567 Iowa Administrative Code rules 22.110 - 22.114. Permits may be suspended, terminated, or revoked as specified in 567 Iowa Administrative Code Rules 22.115.

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### Emission Limits

*Unless specified otherwise in the Source Specific Conditions, the following limitations and supporting regulations apply to all emission points at this plant:*

Opacity (visible emissions): 40% opacity  
Authority for Requirement: 567 IAC 23.3(2)"d"

Sulfur Dioxide (SO<sub>2</sub>): 500 parts per million by volume  
Authority for Requirement: 567 IAC 23.3(3)"e"

### Particulate Matter:

No person shall cause or allow the emission of particulate matter from any source in excess of the emission standards specified in this chapter, except as provided in 567 – Chapter 24. For sources constructed, modified or reconstructed after July 21, 1999, the emission of particulate matter from any process shall not exceed an emission standard of 0.1 grain per dry standard cubic foot of exhaust gas, except as provided in 567 – 21.2(455B), 23.1(455B), 23.4(455B) and 567 – Chapter 24.

For sources constructed, modified or reconstructed prior to July 21, 1999, the emission of particulate matter from any process shall not exceed the amount determined from Table I, or amount specified in a permit if based on an emission standard of 0.1 grain per standard cubic foot of exhaust gas or established from standards provided in 23.1(455B) and 23.4(455B).

Authority for Requirement: 567 IAC 23.3(2)"a"

Fugitive Dust: Attainment and Unclassified Areas - No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered repaired or demolished, with the exception of farming operations or dust generated by ordinary travel on unpaved public roads, without taking reasonable precautions to prevent particulate matter in quantities sufficient to create a nuisance, as defined in Iowa Code section 657.1, from becoming airborne. All persons, with the above exceptions, shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate. The highway authority shall be responsible for taking corrective action in those cases where said authority has received complaints of or has actual knowledge of dust conditions which require abatement pursuant to this subrule. Reasonable precautions may include, but not limited to, the following procedures.

1. Use, where practical, of water or chemicals for control of dusts in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
2. Application of suitable materials, such as but not limited to asphalt, oil, water or chemicals on unpaved roads, material stockpiles, race tracks and other surfaces which can give rise to airborne dusts.
3. Installation and use of containment or control equipment, to enclose or otherwise limit the emissions resulting from the handling and transfer of dusty materials, such as but not limited to grain, fertilizers or limestone.
4. Covering at all times when in motion, open-bodied vehicles transporting materials likely to give rise to airborne dusts.
5. Prompt removal of earth or other material from paved streets or to which earth or other material has been transported by trucking or earth-moving equipment, erosion by water or other means.

Authority for Requirement: 567 IAC 23.3(2)"c"

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**Compliance Plan**

*The owner/operator shall comply with the applicable requirements listed below. The compliance status is based on information provided by the applicant.*

Unless otherwise noted in Section III of this permit, Central Iowa Power Cooperative – Fair Station is in compliance with all applicable requirements and shall continue to comply with all such requirements. For those applicable requirements which become effective during the permit term, Central Iowa Power Cooperative – Fair Station shall comply with such requirements in a timely manner.

Authority for Requirement: 567 IAC 22.108(15)

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**Section 112(j) of the Clean Air Act (MACT Hammer) Compliance Plan**

Emissions **units EU1 and EU3** are of the source type regulated by the National Emission Standard for Hazardous Air Pollutants (NESHAP) for Industrial, Commercial, and Institutional Boilers and Process Heaters (567 IAC 23.1(4)"dd", 40 CFR Part 63, Subpart DDDDD). On July 30, 2007, the DC Circuit Court vacated this entire standard. Since the standard has been vacated, the units may be subject to the requirements of section 112(j) of the Clean Air Act. Section 112(j) requires the facility to submit an application addressing the control of HAP emissions from these units and also requires that the MACT (Maximum Achievable Control Technology) be incorporated into the facility's Title V operating permit. The DNR is not requiring affected facilities to submit 112(j) applications at this time. However, the DNR recommends that affected facilities submit the minimum information to satisfy 112(j) application requirements. The DNR is suggesting submittal of this information by January 31, 2009, because this date is 18 months from the date the D.C. Court issued its mandate. (Refer to the Air Quality Bureau letter dated December 31, 2008 for additional detail.)

Authority for Requirement: 40 CFR 63.52; 567 IAC 23.1(4)"b"(2)

### III. Emission Point-Specific Conditions

Facility Name: Central Iowa Power Cooperative - Fair Station  
Permit Number: 98-TV-001R2

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#### **Emission Point ID Number: EP1**

##### Associated Equipment

Associated Emission Unit ID Numbers: EU1 and EU1G  
Emissions Control Equipment ID Number: CE1  
Emissions Control Equipment Description: Electrostatic Precipitator  
Continuous Emissions Monitors ID Numbers: ME1

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Emission Unit vented through this Emission Point: EU1  
Emission Unit Description: Unit 1 PC Boiler  
Raw Material/Fuel: Bituminous Coal  
Rated Capacity: 279.74 MMBtu/hr

Emission Unit vented through this Emission Point: EU1G  
Emission Unit Description: Unit 1 PC Boiler  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 0.27 MMcf/hr

#### **Applicable Requirements**

##### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity  
Emission Limits: 40%  
Authority for Requirement: Iowa DNR Construction Permit 73-A-146-S  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter  
Emission Limits: 0.6 lb./MMBtu (See following multiple firing limit )  
Authority for Requirement: Iowa DNR Construction Permit 73-A-146-S  
567 IAC 23.3(2)"b"

Pollutant: Particulate Matter (Multiple firing limit)  
Units EU1 & EU2 fired - Emission Limits: 0.43 lb./MMBtu (Total plant heat input)  
Authority for Requirement: Iowa DNR Construction Permit 73-A-146-S  
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)



Emission Limits: 6 lb./MMBtu

Authority for Requirement: 567 IAC 23.3(3)"a"(1)

### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

#### **Stack Testing:**

Pollutant - Particulate Matter

1st Stack Test to be Completed by – June 23, 2010

2nd Stack Test to be Completed between – December 23, 2011 and December 23, 2012

Test Method – Iowa Compliance Sampling Manual

Authority for Requirement - 567 IAC 22.108(3)"b"

Pollutant - Sulfur Dioxide (SO<sub>2</sub>)

Stack Test to be Completed by – June 23, 2011

Test Method - Method 6C, 40 CFR 60

Authority for Requirement - 567 IAC 22.108(3)"b"

#### **Continuous Emissions Monitoring:**

Pollutant - Opacity

Operational Specifications - 40 CFR Part 60 App. B, Spec. 1

Initial System Calibration/Quality Assurance – 5/1/01

Ongoing System Calibration/Quality Assurance - 40 CFR Part 60 App. B, Spec. 1

Reporting & Record keeping - 567 IAC 25.1(5) and (6)

Authority for Requirement - 567 IAC 25.1(1)

*The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☒ No ☐

Authority for Requirement: 567 IAC 22.108(3)

#### **Compliance Assurance Monitoring (CAM) Plan for CE1 Electrostatic Precipitator**

**Emission Point ID Number: EP1**

**Emission Unit Description: Utility Boiler (Pulverized coal, dry-bottom wall-fired unit)**

**Associated Emission Unit ID Numbers: EU1 and EU1G**

**Emissions Control Equipment ID Number: CE1**

**Emissions Control Equipment Description: Electrostatic Precipitator**

**Continuous Emissions Monitors ID Numbers: ME1**

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu (see following multiple firing limit)

Authority for Requirement: 567 IAC 23.3(2)"b"; IDNR Construction Permit 73-A-146-S

Pollutant: Particulate Matter (multiple firing limit)

Emission Limits: 0.43 lb/MMBtu (total plant heat input)

Authority for Requirement: 567 IAC 23.3(2)"b"; IDNR Construction Permit 73-A-146-S

<b>Indicator</b>	Opacity of CE1 Exhaust	Total ESP Input Power, kVA
<b>Measurement Approach</b>	COMS for CE1	Total ESP Input Power is continuously measured and recorded electronically by the CE1 control system.
<b>Indicator Range</b>	A CAM excursion that requires investigation for this parameter will be defined by: any 1 hour average greater than 25% opacity, or 30% if Unit 2 at the facility is offline.	A CAM excursion will be defined as any one hour average of the total ESP input power which is less than 7 kVA. An audible alarm will sound in the control room in such an event.
<b>Performance Criteria</b>		
<b>Specifications for obtaining representative data</b>	As required by Part 60&75	Unit must be operating at normal load. Startup and shutdown scenarios will be exempt.
<b>QA/QC Procedures</b>	Daily zero/span calibrations and other required Part 60&75 procedures.	Confirm Total ESP Input Power consumption reads at or near zero at the precipitator control computer when the unit is not operating.
<b>Monitoring Frequency</b>	Opacity is monitored continuously by the COMS.	Total ESP Input Power is monitored continuously by the precipitator control computer.
<b>Data Collection Procedure</b>	Opacity data for CE1 is automatically logged in the CEMS DAHS and the precipitator controller.	Data is logged by the precipitator control computer.
<b>Data Average Period</b>	1 hour average	1 hour average
<b>Justification for Indicators</b>	Opacity is the parameter to which the unit is explicitly limited under Title V. It is	Total Input Power

	therefore the primary performance indicator for CE1.	
<b>Corrective Actions</b>	The appropriate measures for remediation will be implemented within eight (8) hours plus the period of time until generating capacity is available to meet consumer demand	

### **Record Keeping and Reporting**

- Opacity reports and supporting data
- Maintain a written or electronic record of all inspections and any action resulting from the inspection.
- Maintenance and inspection records will be kept for five (5) years and available upon request.

### **Quality Control**

- The continuous opacity monitor will be automatically calibrated for zero and span adjustments daily.
- All instruments and control equipment will be calibrated, maintained, and operated according to the manufactures specifications.
- A spare parts inventory will be maintained.

### **Monitoring Methods & Corrective Actions**

#### **General**

- Periodic monitoring, which to be of value requires the source to be operating, is not required during periods of time greater than one day in which the source does not operate.

#### **Continuously**

- Opacity Monitoring

Corrective action measures will be implemented when the opacity exceeds forty (40) percent for any six (6) minute average. If exceeded this would be a permit violation. The appropriate measures for remediation will be implemented within eight (8) hours plus the period of time until generating capacity is available to meet consumer demand.

- Audible Precipitator Malfunction Alarm

The precipitator malfunction alarm will continuously monitor T-R set failure and rapper control malfunction. Corrective action measures will be implemented on the occurrence of a precipitator malfunction alarm. The appropriate measures for remediation will be implemented within eight (8) hours plus the period of time until generating capacity is available to meet consumer demand.

#### **Daily**

- Inspection of rapper operation
- Inspection of T-R set operation
- Inspection of ash removal system operation

Corrective action measures will be implemented on the occurrence of an abnormal condition. Abnormal conditions will include the following: T-R set failure, rapper system failure, ash transport system failure, and high ash hopper level. The appropriate measures for remediation will be implemented within eight (8) hours plus the period of time until generating capacity is available to meet consumer demand.

#### **Each Major Boiler Outage**

- Check and correct plate electrode alignment
- Inspect for collection surface fouling
- Inspect T-R set mechanical condition
- Inspect internal structural components

Corrective action measures will be devised and implemented on the occurrence of an abnormal condition. The appropriate measures for remediation will be implemented in a timely manner.

## **Emission Point ID Number: EP2**

### Associated Equipment

Associated Emission Unit ID Numbers: EU2 and EU2G  
Emissions Control Equipment ID Number: CE2  
Emissions Control Equipment Description: Electrostatic Precipitator  
Continuous Emissions Monitors ID Numbers: ME2A and ME2B

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Emission Unit vented through this Emission Point: EU2  
Emission Unit Description: Unit 2 PC Coal Boiler  
Raw Material/Fuel: Bituminous Coal  
Rated Capacity: 476.66 MMBtu/hr

Emission Unit vented through this Emission Point: EU2G  
Emission Unit Description: Unit 2 PC Boiler  
Raw Material/Fuel: Natural Gas  
Rated Capacity: 0.46 MMcf/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity  
Emission Limits: 40%  
Authority for Requirement: Iowa DNR Construction Permit 73-A-147  
567 IAC 23.3(2)"d"

Pollutant: Particulate Matter  
Emission Limits: 0.6 lb./MMBtu (See following multiple firing limit)  
Authority for Requirement: Iowa DNR Construction Permit 73-A-147  
567 IAC 23.3(2)"b"

Pollutant: Particulate Matter (Multiple firing limit)  
Units EU1 & EU2 fired - Emission Limits: 0.43 lb./MMBtu (Total plant heat input)  
Authority for Requirement: Iowa DNR Construction Permit 73-A-146-S  
567 IAC 23.3(2)"b"

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)  
Emission Limits: 6 lb./MMBtu  
Authority for Requirement: 567 IAC 23.3(3)"a"(1)

Pollutant: Sulfur Dioxide (SO<sub>2</sub>)

Emission Limits: Sulfur Dioxide Allowances Effective January 1, 2000

Authority for Requirement: 567 IAC 22.108(7)

Attached Phase II Acid Rain Permit

Pollutant: Nitrogen Oxide (NO<sub>x</sub>)

Emission Limits: See attached Phase II Permit

Authority for Requirement: 567 IAC 22.125(4) (Attached Phase II Permit)

40 CFR 76.7(a)(2)

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

#### **Stack Testing:**

Pollutant - Particulate Matter

1st Stack Test to be Completed by – June 23, 2010

2nd Stack Test to be Completed between – December 23, 2011 and December 23, 2012

Test Method – Iowa Compliance Sampling Manual

Authority for Requirement - 567 IAC 22.108(3)"b"

#### **Continuous Emissions Monitoring:**

Pollutant - Opacity

Operational Specifications - 40 CFR Part 75

Initial System Calibration/Quality Assurance - 4/95

Ongoing System Calibration/Quality Assurance - 40 CFR Part 75

Reporting & Record keeping - 40 CFR Part 75

Authority for Requirement - 567 IAC 25.1(1) and 567 IAC 25.2

Pollutant - Sulfur Dioxide (SO<sub>2</sub>)

Operational Specifications - 40 CFR Part 75

Initial System Calibration/Quality Assurance - 12/94

Ongoing System Calibration/Quality Assurance - 40 CFR Part 75

Reporting & Record keeping - 40 CFR Part 75

Authority for Requirement - 567 IAC 25.2

Pollutant - Nitrogen Oxides (NO<sub>x</sub>)

Operational Specifications - 40 CFR Part 75

Initial System Calibration/Quality Assurance - 12/94

Ongoing System Calibration/Quality Assurance - 40 CFR Part 75

Reporting & Record keeping - 40 CFR Part 75

Authority for Requirement - 567 IAC 25.2

**Other Parameters**

Pollutant - Other - Carbon Dioxide

Operational Specifications - 40 CFR Part 75

Initial System Calibration/Quality Assurance - 12/94

Ongoing System Calibration/Quality Assurance - 40 CFR Part 75

Reporting &amp; Record keeping - 40 CFR Part 75

Authority for Requirement - 567 IAC 25.2

*The owner of this equipment or the owner's authorized agent shall provide written notice to the Director, not less than 30 days before a required stack test or performance evaluation of a continuous emission monitor. Results of the test shall be submitted in writing to the Director in the form of a comprehensive report within 6 weeks of the completion of the testing. 567 IAC 25.1(7)*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☒ No ☐

Authority for Requirement: 567 IAC 22.108(3)

### **Compliance Assurance Monitoring (CAM) Plan for CE2 Electrostatic Precipitator**

**Emission Point ID Number: EP2**

**Emission Unit Description: Utility Boiler (Pulverized coal, dry-bottom wall-fired unit)**

**Associated Emission Unit ID Numbers: EU2 and EU2G**

**Emissions Control Equipment ID Number: CE2**

**Emissions Control Equipment Description: Electrostatic Precipitator**

**Continuous Emissions Monitors ID Numbers: ME2A and ME2B**

Pollutant: Particulate Matter

Emission Limits: 0.6 lb/MMBtu (see following multiple firing limit)

Authority for Requirement: 567 IAC 23.3(2)"b"; IDNR Construction Permit 73-A-146-S

Pollutant: Particulate Matter (multiple firing limit)

Emission Limits: 0.43 lb/MMBtu (total plant heat input)

Authority for Requirement: 567 IAC 23.3(2)"b"; IDNR Construction Permit 73-A-146-S

<b>Indicator</b>	Opacity of CE2 Exhaust	Total ESP Input Power, kVA
<b>Measurement Approach</b>	COMS for CE2	Total ESP Input Power is continuously measured and

		recorded electronically by the CE2 control system.
<b>Indicator Range</b>	A CAM excursion that requires investigation for this parameter will be defined by: any 1 hour average greater than 25% opacity, or 30% if Unit 1 at the facility is offline.	A CAM excursion will be defined as any one hour average of the total ESP input power which is less than 7 kVA. An audible alarm will sound in the control room in such an event.
<b>Performance Criteria</b>		
<b>Specifications for obtaining representative data</b>	As required by Part 60&75	Unit must be operating at normal load. Startup and shutdown scenarios will be exempt.
<b>QA/QC Procedures</b>	Daily zero/span calibrations and other required Part 60&75 procedures.	Confirm Total ESP Input Power consumption reads at or near zero at the precipitator control computer when the unit is not operating.
<b>Monitoring Frequency</b>	Opacity is monitored continuously by the COMS.	Total ESP Input Power is monitored continuously by the precipitator control computer.
<b>Data Collection Procedure</b>	Opacity data for CE2 is automatically logged in the CEMS DAHS and the precipitator controller.	Data is logged by the precipitator control computer.
<b>Data Average Period</b>	1 hour average	3,000 count (sec) alarm damper
<b>Justification for Indicators</b>	Opacity is the parameter to which the unit is explicitly limited under Title V. It is therefore the primary performance indicator for CE2.	Total Input Power
<b>Corrective Actions</b>	The appropriate measures for remediation will be implemented within eight (8) hours plus the period of time until generating capacity is available to meet consumer demand.	

### **Record Keeping and Reporting**

- Opacity reports and supporting data
- Maintain a written or electronic record of all inspections and any action resulting from the inspection.
- Maintenance and inspection records will be kept for five (5) years and available upon request.

### **Quality Control**

- The continuous opacity monitor will be automatically calibrated for zero and span adjustments daily.
- All instruments and control equipment will be calibrated, maintained, and operated according to the manufactures specifications.
- A spare parts inventory will be maintained.



## **Monitoring Methods & Corrective Actions**

### **General**

- Periodic monitoring, which to be of value requires the source to be operating, is not required during periods of time greater than one day in which the source does not operate.

### **Continuously**

- Opacity Monitoring

Corrective action measures will be implemented when the opacity exceeds forty (40) percent for any six (6) minute average. If exceeded this would be a permit violation. The appropriate measures for remediation will be implemented within eight (8) hours plus the period of time until generating capacity is available to meet consumer demand.

- Audible Precipitator Malfunction Alarm

The precipitator malfunction alarm will continuously monitor T-R set failure and rapper control malfunction. Corrective action measures will be implemented on the occurrence of a precipitator malfunction alarm. The appropriate measures for remediation will be implemented within eight (8) hours plus the period of time until generating capacity is available to meet consumer demand.

### **Daily**

- Inspection of rapper operation
- Inspection of T-R set operation
- Inspection of ash removal system operation

Corrective action measures will be implemented on the occurrence of an abnormal condition. Abnormal conditions will include the following: T-R set failure, rapper system failure, ash transport system failure, and high ash hopper level.

The appropriate measures for remediation will be implemented within eight (8) hours plus the period of time until generating capacity is available to meet consumer demand.

### **Each Major Boiler Outage**

- Check and correct plate electrode alignment
- Inspect for collection surface fouling
- Inspect T-R set mechanical condition
- Inspect internal structural components

Corrective action measures will be devised and implemented on the occurrence of an abnormal condition. The appropriate measures for remediation will be implemented in a timely manner.

## **Emission Point ID Number: EP4**

### **Associated Equipment**

Associated Emission Unit ID Number: EU4  
Emissions Control Equipment ID Number: CE3  
Emissions Control Equipment Description: Bag Filter

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Emission Unit vented through this Emission Point: EU4  
Emission Unit Description: Fly Ash Silo  
Raw Material/Fuel: Fly Ash  
Rated Capacity: 30 tons/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity  
Emission Limits: 40%  
Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter  
Emission Limits: 40.0 lbs./hr<sup>(1)</sup>  
<sup>(1)</sup> based on a process weight rate of 30 tons/hr  
Authority for Requirement: Iowa DNR Construction Permit 76-A-135  
567 IAC 23.3(2)"a"

#### **Operational Limits & Requirements**

*The owner/operator of this equipment shall comply with the operational limits and requirements listed below.*

#### **Operating Limits:**

1. Operating shall not exceed 1,100 hours per twelve-month rolling period.
2. Operate and maintain the control equipment per the manufacturer's instructions and specifications.

#### **Reporting & Record Keeping:**

*The following records shall be maintained on-site for five (5) years and available for inspection upon request by representatives of the Department of Natural Resources.*

1. Record the hours of operation per twelve-month rolling period.
2. Record all maintenance and repair to the control equipment.

### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?**      Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?**      Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?**      Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP5**

### Associated Equipment

Associated Emission Unit ID Number: EU5

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Emission Unit vented through this Emission Point: EU5

Emission Unit Description: Coal Storage Pile

Raw Material/Fuel: Coal

Rated Capacity: 4 Acres

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

#### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP8**

### Associated Equipment

Associated Emission Unit ID Number: EU8

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Emission Unit vented through this Emission Point: EU8

Emission Unit Description: Coal Handling Vent

Raw Material/Fuel: Coal

Rated Capacity: 270 tons/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limits: 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limits: 61.82 lb./hr<sup>(1)</sup>

<sup>(1)</sup> based on a process weight rate of 270 tons/hr

Authority for Requirement: 567 IAC 23.3(2)"a"

#### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP9**

### Associated Equipment

Associated Emission Unit ID Number: EU9

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Emission Unit vented through this Emission Point: EU9

Emission Unit Description: Coal Bunker Vent

Raw Material/Fuel: Coal

Rated Capacity: 270 tons/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Opacity

Emission Limits: 40%

Authority for Requirement: 567 IAC 23.3(2)"d"

Pollutant: Particulate Matter

Emission Limits: 61.82 lb./hr<sup>(1)</sup>

<sup>(1)</sup> based on a process weight rate of 270 tons/hr

Authority for Requirement: 567 IAC 23.3(2)"a"

#### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP10**

### Associated Equipment

Associated Emission Unit ID Number: EU10

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Emission Unit vented through this Emission Point: EU10

Emission Unit Description: Coal Transfer Hopper

Raw Material/Fuel: Coal

Rated Capacity: 300 tons/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

#### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

## **Emission Point ID Number: EP11**

### Associated Equipment

Associated Emission Unit ID Number: EU11

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Emission Unit vented through this Emission Point: EU11

Emission Unit Description: Coal Transfer Pit

Raw Material/Fuel: Coal

Rated Capacity: 300 tons/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

#### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)



## **Emission Point ID Number: EP12**

### Associated Equipment

Associated Emission Unit ID Number: EU12

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Emission Unit vented through this Emission Point: EU12

Emission Unit Description: Bulldozing Coal

Raw Material/Fuel: Coal

Rated Capacity: 34.78 tons/hr

### **Applicable Requirements**

#### **Emission Limits (lb./hr, gr./dscf, lb./MMBtu, % opacity, etc.)**

*The emissions from this emission point shall not exceed the levels specified below.*

Pollutant: Fugitive Dust

Emission Limit: No person shall allow, cause or permit any materials to be handled, transported or stored; or a building, its appurtenances or a construction haul road to be used, constructed, altered, repaired or demolished, without taking reasonable precautions to prevent a nuisance. All persons shall take reasonable precautions to prevent the discharge of visible emissions of fugitive dusts beyond the lot line of the property on which the emissions originate.

Authority for Requirement: 567 IAC 23.3(2)"c"

#### **Monitoring Requirements**

*The owner/operator of this equipment shall comply with the monitoring requirements listed below.*

**Agency Approved Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Facility Maintained Operation & Maintenance Plan Required?** Yes ☐ No ☒

**Compliance Assurance Monitoring (CAM) Plan Required?** Yes ☐ No ☒

Authority for Requirement: 567 IAC 22.108(3)

## IV. General Conditions

This permit is issued under the authority of the Iowa Code subsection 455B.133(8) and in accordance with 567 Iowa Administrative Code chapter 22.

### G1. Duty to Comply

1. The permittee must comply with all conditions of the Title V permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for a permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. *567 IAC 22.108(9)"a"*
2. Any compliance schedule shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based. *567 IAC 22.105 (2)"h"(3)*
3. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be enforceable by the administrator and are incorporated into this permit. *567 IAC 22.108 (1)"b"*
4. Unless specified as either "state enforceable only" or "local program enforceable only", all terms and conditions in the permit, including provisions to limit a source's potential to emit, are enforceable by the administrator and citizens under the Act. *567 IAC 22.108 (14)*
5. It shall not be a defense for a permittee, in an enforcement action, that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit. *567 IAC 22.108 (9)"b"*

### G2. Permit Expiration

1. Except as provided in 567 IAC 22.104, the expiration of this permit terminates the permittee's right to operate unless a timely and complete application has been submitted for renewal. Any testing required for renewal shall be completed before the application is submitted. *567 IAC 22.116(2)*
2. To be considered timely, the owner, operator, or designated representative (where applicable) of each source required to obtain a Title V permit shall present or mail the Air Quality Bureau, Iowa Department of Natural Resources, Air Quality Bureau, 7900 Hickman Rd, Suite #1, Urbandale, Iowa 50322, two copies (three if your facility is located in Linn or Polk county) of a complete permit application, at least 6 months but not more than 18 months prior to the date of permit expiration. An additional copy must also be sent to EPA Region VII, Attention: Chief of Air Permits, 901 N. 5th St., Kansas City, KS 66101. The application must include all emission points, emission units, air pollution control equipment, and monitoring devices at the facility. All emissions generating activities, including fugitive emissions, must be included. The definition of a complete application is as indicated in 567 IAC 22.105(2). *567 IAC 22.105*

### G3. Certification Requirement for Title V Related Documents

Any application, report, compliance certification or other document submitted pursuant to this permit shall contain certification by a responsible official of truth, accuracy, and completeness. All certifications shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. *567 IAC 22.107 (4)*

### G4. Annual Compliance Certification

By March 31 of each year, the permittee shall submit compliance certifications for the previous calendar year. The certifications shall include descriptions of means to monitor the compliance status of all emissions sources including emissions limitations, standards, and work practices in accordance with applicable requirements. The certification for a source shall include the identification of each term or condition of the permit that is the basis of the certification; the compliance status; whether compliance was continuous or intermittent; the method(s) used for determining the compliance status of the source, currently and over the reporting period consistent with all applicable department rules. For sources determined not to be in compliance at the time of compliance certification, a compliance schedule shall be submitted which provides for periodic progress reports, dates for achieving activities, milestones, and an explanation of why any dates were missed and preventive or corrective measures. The compliance certification shall be submitted to the administrator, director, and the appropriate DNR Field office. *567 IAC 22.108 (15)"e"*

### G5. Semi-Annual Monitoring Report

By March 31 and September 30 of each year, the permittee shall submit a report of any monitoring required under this permit for the 6 month periods of July 1 to December 31 and January 1 to June 30, respectively. All instances of deviations from permit requirements must be clearly identified in these reports, and the report must be signed by a responsible official, consistent with 567 IAC 22.107(4). The semi-annual monitoring report shall be submitted to the director and the appropriate DNR Field office. *567 IAC 22.108 (5)*

**G6. Annual Fee**

1. The permittee is required under subrule 567 IAC 22.106 to pay an annual fee based on the total tons of actual emissions of each regulated air pollutant. Beginning July 1, 1996, Title V operating permit fees will be paid on July 1 of each year. The fee shall be based on emissions for the previous calendar year.
2. The fee amount shall be calculated based on the first 4,000 tons of each regulated air pollutant emitted each year. The fee to be charged per ton of pollutant will be available from the department by June 1 of each year. The Responsible Official will be advised of any change in the annual fee per ton of pollutant.
3. The following forms shall be submitted annually by March 31 documenting actual emissions for the previous calendar year.
  - a. Form 1.0 "Facility Identification";
  - b. Form 4.0 "Emissions unit-actual operations and emissions" for each emission unit;
  - c. Form 5.0 "Title V annual emissions summary/fee"; and
  - d. Part 3 "Application certification."
4. The fee shall be submitted annually by July 1. The fee shall be submitted with the following forms:
  - a. Form 1.0 "Facility Identification";
  - b. Form 5.0 "Title V annual emissions summary/fee";
  - c. Part 3 "Application certification."
5. If there are any changes to the emission calculation form, the department shall make revised forms available to the public by January 1. If revised forms are not available by January 1, forms from the previous year may be used and the year of emissions documented changed. The department shall calculate the total statewide Title V emissions for the prior calendar year and make this information available to the public no later than April 30 of each year.
6. Phase I acid rain affected units under section 404 of the Act shall not be required to pay a fee for emissions which occur during the years 1993 through 1999 inclusive.
7. The fee for a portable emissions unit or stationary source which operates both in Iowa and out of state shall be calculated only for emissions from the source while operating in Iowa.
8. Failure to pay the appropriate Title V fee represents cause for revocation of the Title V permit as indicated in 567 IAC 22.115(1)"d".

**G7. Inspection of Premises, Records, Equipment, Methods and Discharges**

Upon presentation of proper credentials and any other documents as may be required by law, the permittee shall allow the director or the director's authorized representative to:

1. Enter upon the permittee's premises where a Title V source is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
3. Inspect, at reasonable times, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and
4. Sample or monitor, at reasonable times, substances or parameters for the purpose of ensuring compliance with the permit or other applicable requirements. *567 IAC 22.108 (15)"b"*

**G8. Duty to Provide Information**

The permittee shall furnish to the director, within a reasonable time, any information that the director may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the director copies of records required to be kept by the permit, or for information claimed to be confidential, the permittee shall furnish such records directly to the administrator of EPA along with a claim of confidentiality. *567 IAC 22.108 (9)"e"*

**G9. General Maintenance and Repair Duties**

The owner or operator of any air emission source or control equipment shall:

1. Maintain and operate the equipment or control equipment at all times in a manner consistent with good practice for minimizing emissions.
2. Remedy any cause of excess emissions in an expeditious manner.
3. Minimize the amount and duration of any excess emission to the maximum extent possible during periods of such emissions. These measures may include but not be limited to the use of clean fuels, production cutbacks, or the use of alternate process units or, in the case of utilities, purchase of electrical power until repairs are completed.
4. Schedule, at a minimum, routine maintenance of equipment or control equipment during periods of process shutdowns to the maximum extent possible. *567 IAC 24.2(1)*

#### **G10. Recordkeeping Requirements for Compliance Monitoring**

1. In addition to any source specific recordkeeping requirements contained in this permit, the permittee shall maintain the following compliance monitoring records, where applicable:
  - a. The date, place and time of sampling or measurements
  - b. The date the analyses were performed.
  - c. The company or entity that performed the analyses.
  - d. The analytical techniques or methods used.
  - e. The results of such analyses; and
  - f. The operating conditions as existing at the time of sampling or measurement.
  - g. The records of quality assurance for continuous compliance monitoring systems (including but not limited to quality control activities, audits and calibration drifts.)
2. The permittee shall retain records of all required compliance monitoring data and support information for a period of at least 5 years from the date of compliance monitoring sample, measurement report or application. Support information includes all calibration and maintenance records and all original strip chart recordings for continuous compliance monitoring, and copies of all reports required by the permit.
3. For any source which in its application identified reasonably anticipated alternative operating scenarios, the permittee shall:
  - a. Comply with all terms and conditions of this permit specific to each alternative scenario.
  - b. Maintain a log at the permitted facility of the scenario under which it is operating.
  - c. Consider the permit shield, if provided in this permit, to extend to all terms and conditions under each operating scenario. *567 IAC 22.108(4), 567 IAC 22.108(12)*

#### **G11. Evidence used in establishing that a violation has or is occurring.**

Notwithstanding any other provisions of these rules, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any provisions herein.

1. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred at a source:
  - a. A monitoring method approved for the source and incorporated in an operating permit pursuant to 567 Chapter 22;
  - b. Compliance test methods specified in 567 Chapter 25; or
  - c. Testing or monitoring methods approved for the source in a construction permit issued pursuant to 567 Chapter 22.
2. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
  - a. Any monitoring or testing methods provided in these rules; or
  - b. Other testing, monitoring, or information gathering methods that produce information comparable to that produced by any method in subrule 21.5(1) or this subrule. *567 IAC 21.5(1)-567 IAC 21.5(2)*

#### **G12. Prevention of Accidental Release: Risk Management Plan Notification and Compliance Certification**

If the permittee is required to develop and register a risk management plan pursuant to section 112(r) of the Act, the permittee shall notify the department of this requirement. The plan shall be filed with all appropriate authorities by the deadline specified by EPA. A certification that this risk management plan is being properly implemented shall be included in the annual compliance certification of this permit. *567 IAC 22.108(6)*

#### **G13. Hazardous Release**

The permittee must report any situation involving the actual, imminent, or probable release of a hazardous substance into the atmosphere which, because of the quantity, strength and toxicity of the substance, creates an immediate or potential danger to the public health, safety or to the environment. A verbal report shall be made to the department at (515) 281-8694 and to the local police department or the office of the sheriff of the affected county as soon as possible but not later than six hours after the discovery or onset of the condition. This verbal report must be followed up with a written report as indicated in 567 IAC 131.2(2). *567 IAC Chapter 131-State Only*

#### **G14. Excess Emissions and Excess Emissions Reporting Requirements**

1. Excess Emissions. Excess emission during a period of startup, shutdown, or cleaning of control equipment is not a violation of the emission standard if the startup, shutdown or cleaning is accomplished expeditiously and in a manner consistent with good practice for minimizing emissions. Cleaning of control equipment which does not require the shutdown of the process equipment shall be limited to one six-minute period per one-hour period. An incident of excess emission (other than an incident during startup, shutdown or cleaning of control equipment) is a violation. If the owner or operator of a source maintains that the incident of excess emission was due to a malfunction, the owner or operator must show that the conditions which caused the incident of excess emission were not preventable by reasonable maintenance and control measures. Determination of any subsequent enforcement

action will be made following review of this report. If excess emissions are occurring, either the control equipment causing the excess emission shall be repaired in an expeditious manner or the process generating the emissions shall be shutdown within a reasonable period of time. An expeditious manner is the time necessary to determine the cause of the excess emissions and to correct it within a reasonable period of time. A reasonable period of time is eight hours plus the period of time required to shut down the process without damaging the process equipment or control equipment. In the case of an electric utility, a reasonable period of time is eight hours plus the period of time until comparable generating capacity is available to meet consumer demand with the affected unit out of service, unless, the director shall, upon investigation, reasonably determine that continued operation constitutes an unjustifiable environmental hazard and issue an order that such operation is not in the public interest and require a process shutdown to commence immediately.

## 2. Excess Emissions Reporting

a. Oral Reporting of Excess Emissions. An incident of excess emission (other than an incident of excess emission during a period of startup, shutdown, or cleaning) shall be reported to the appropriate field office of the department within eight hours of, or at the start of the first working day following the onset of the incident. The reporting exemption for an incident of excess emission during startup, shutdown or cleaning does not relieve the owner or operator of a source with continuous monitoring equipment of the obligation of submitting reports required in 567-subrule 25.1(6). An oral report of excess emission is not required for a source with operational continuous monitoring equipment (as specified in 567-subrule 25.1(1) ) if the incident of excess emission continues for less than 30 minutes and does not exceed the applicable emission standard by more than 10 percent or the applicable visible emission standard by more than 10 percent opacity. The oral report may be made in person or by telephone and shall include as a minimum the following:

- i. The identity of the equipment or source operation from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and expected duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps being taken to remedy the excess emission.
- vi. The steps being taken to limit the excess emission in the interim period.

b. Written Reporting of Excess Emissions. A written report of an incident of excess emission shall be submitted as a follow-up to all required oral reports to the department within seven days of the onset of the upset condition, and shall include as a minimum the following:

- i. The identity of the equipment or source operation point from which the excess emission originated and the associated stack or emission point.
- ii. The estimated quantity of the excess emission.
- iii. The time and duration of the excess emission.
- iv. The cause of the excess emission.
- v. The steps that were taken to remedy and to prevent the recurrence of the incident of excess emission.
- vi. The steps that were taken to limit the excess emission.
- vii. If the owner claims that the excess emission was due to malfunction, documentation to support this claim. *567 IAC 24.1(1)-567 IAC 24.1(4)*

3. Emergency Defense for Excess Emissions. For the purposes of this permit, an “emergency” means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under the permit due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include non-compliance, to the extent caused by improperly designed equipment, lack of preventive maintenance, careless or improper operation or operator error. An emergency constitutes an affirmative defense to an action brought for non-compliance with technology based limitations if it can be demonstrated through properly signed contemporaneous operating logs or other relevant evidence that:

- a. An emergency occurred and that the permittee can identify the cause(s) of the emergency;
- b. The facility at the time was being properly operated;
- c. During the period of the emergency, the permittee took all reasonable steps to minimize levels of emissions that exceeded the emissions standards or other requirements of the permit; and
- d. The permittee submitted notice of the emergency to the director by certified mail within two working days of the time when the emissions limitations were exceeded due to the emergency. This notice must

contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.  
*567 IAC 22.108(16)*

#### **G15. Permit Deviation Reporting Requirements**

A deviation is any failure to meet a term, condition or applicable requirement in the permit. Reporting requirements for deviations that result in a hazardous release or excess emissions have been indicated above (see G13 and G14). Unless more frequent deviation reporting is specified in the permit, any other deviation shall be documented in the semi-annual monitoring report and the annual compliance certification (see G4 and G5). *567 IAC 22.108(5)"b"*

#### **G16. Notification Requirements for Sources That Become Subject to NSPS and NESHAP Regulations**

During the term of this permit, the permittee must notify the department of any source that becomes subject to a standard or other requirement under 567-subrule 23.1(2) (standards of performance of new stationary sources) or section 111 of the Act; or 567-subrule 23.1(3) (emissions standards for hazardous air pollutants), 567-subrule 23.1(4) (emission standards for hazardous air pollutants for source categories) or section 112 of the Act. This notification shall be submitted in writing to the department pursuant to the notification requirements in 40 CFR Section 60.7, 40 CFR Section 61.07, and/or 40 CFR Section 63.9. *567 IAC 23.1(2), 567 IAC 23.1(3), 567 IAC 23.1(4)*

#### **G17. Requirements for Making Changes to Emission Sources That Do Not Require Title V Permit Modification**

1. Off Permit Changes to a Source. Pursuant to section 502(b)(10) of the CAAA, the permittee may make changes to this installation/facility without revising this permit if:

- a. The changes are not major modifications under any provision of any program required by section 110 of the Act, modifications under section 111 of the act, modifications under section 112 of the act, or major modifications as defined in 567 IAC Chapter 22.
- b. The changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions);
- c. The changes are not modifications under any provisions of Title I of the Act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or as total emissions);
- d. The changes are not subject to any requirement under Title IV of the Act.
- e. The changes comply with all applicable requirements.
- f. For such a change, the permitted source provides to the department and the administrator by certified mail, at least 30 days in advance of the proposed change, a written notification, including the following, which must be attached to the permit by the source, the department and the administrator:
  - i. A brief description of the change within the permitted facility,
  - ii. The date on which the change will occur,
  - iii. Any change in emission as a result of that change,
  - iv. The pollutants emitted subject to the emissions trade
  - v. If the emissions trading provisions of the state implementation plan are invoked, then Title V permit requirements with which the source shall comply; a description of how the emissions increases and decreases will comply with the terms and conditions of the Title V permit.
  - vi. A description of the trading of emissions increases and decreases for the purpose of complying with a federally enforceable emissions cap as specified in and in compliance with the Title V permit; and
  - vii. Any permit term or condition no longer applicable as a result of the change.

*567 IAC 22.110(1)*

2. Such changes do not include changes that would violate applicable requirements or contravene federally enforceable permit terms and conditions that are monitoring (including test methods), record keeping, reporting, or compliance certification requirements. *567 IAC 22.110(2)*

3. Notwithstanding any other part of this rule, the director may, upon review of a notice, require a stationary source to apply for a Title V permit if the change does not meet the requirements of subrule 22.110(1). *567 IAC 22.110(3)*

4. The permit shield provided in subrule 22.108(18) shall not apply to any change made pursuant to this rule.

Compliance with the permit requirements that the source will meet using the emissions trade shall be determined according to requirements of the state implementation plan authorizing the emissions trade. *567 IAC 22.110(4)*

5. No permit revision shall be required, under any approved economic incentives, marketable permits, emissions trading and other similar programs or processes, for changes that are provided for in this permit. *567 IAC 22.108(11)*

#### **G18. Duty to Modify a Title V Permit**

1. Administrative Amendment.

- a. An administrative permit amendment is a permit revision that is required to do any of the following:

- i. Correct typographical errors
    - ii. Identify a change in the name, address, or telephone number of any person identified in the permit, or provides a similar minor administrative change at the source;
    - iii. Require more frequent monitoring or reporting by the permittee; or
    - iv. Allow for a change in ownership or operational control of a source where the director determines that no other change in the permit is necessary, provided that a written agreement containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittee has been submitted to the director.
  - b. The permittee may implement the changes addressed in the request for an administrative amendment immediately upon submittal of the request. The request shall be submitted to the director.
  - c. Administrative amendments to portions of permits containing provisions pursuant to Title IV of the Act shall be governed by regulations promulgated by the administrator under Title IV of the Act.
2. Minor Permit Modification.
- a. Minor permit modification procedures may be used only for those permit modifications that do any of the following:
    - i. Do not violate any applicable requirements
    - ii. Do not involve significant changes to existing monitoring, reporting or recordkeeping requirements in the Title V permit.
    - iii. Do not require or change a case by case determination of an emission limitation or other standard, or increment analysis.
    - iv. Do not seek to establish or change a permit term or condition for which there is no corresponding underlying applicable requirement and that the source has assumed in order to avoid an applicable requirement to which the source would otherwise be subject. Such terms and conditions include any federally enforceable emissions caps which the source would assume to avoid classification as a modification under any provision under Title I of the Act; and an alternative emissions limit approved pursuant to regulations promulgated under section 112(i)(5) of the Act.;
    - v. Are not modifications under any provision of Title I of the Act; and
    - vi. Are not required to be processed as significant modification.
  - b. An application for minor permit revision shall be on the minor Title V modification application form and shall include at least the following:
    - i. A description of the change, the emissions resulting from the change, and any new applicable requirements that will apply if the change occurs.
    - ii. The permittee's suggested draft permit
    - iii. Certification by a responsible official, pursuant to 567 IAC 22.107(4), that the proposed modification meets the criteria for use of a minor permit modification procedures and a request that such procedures be used; and
    - iv. Completed forms to enable the department to notify the administrator and the affected states as required by 567 IAC 22.107(7).
  - c. The permittee may make the change proposed in its minor permit modification application immediately after it files the application. After the permittee makes this change and until the director takes any of the actions specified in 567 IAC 22.112(4) "a" to "c", the permittee must comply with both the applicable requirements governing the change and the proposed permit terms and conditions. During this time, the permittee need not comply with the existing permit terms and conditions it seeks to modify. However, if the permittee fails to comply with its proposed permit terms and conditions during this time period, existing permit term terms and conditions it seeks to modify may subject the facility to enforcement action.
3. Significant Permit Modification. Significant Title V modification procedures shall be used for applications requesting Title V permit modifications that do not qualify as minor Title V modifications or as administrative amendments. These include but are not limited to all significant changes in monitoring permit terms, every relaxation of reporting or recordkeeping permit terms, and any change in the method of measuring compliance with existing requirements. Significant Title V modifications shall meet all requirements of 567 IAC Chapter 22, including those for applications, public participation, review by affected states, and review by the administrator, and those requirements that apply to Title V issuance and renewal. 567 IAC 22.111-567 IAC 22.113 The permittee shall submit an application for a significant permit modification not later than three months after commencing operation of the changed source unless the existing Title V permit would prohibit such construction or change in operation, in

which event the operation of the changed source may not commence until the department revises the permit. 567 IAC 22.105(1)"a"(4)

#### **G19. Duty to Obtain Construction Permits**

Unless exempted under 567 IAC 22.1(2), the permittee must not construct, install, reconstruct, or alter any equipment, control equipment or anaerobic lagoon without first obtaining a construction permit, conditional permit, or permit pursuant to 567 IAC 22.8, or permits required pursuant to 567 IAC 22.4 and 567 IAC 22.5. Such permits shall be obtained prior to the initiation of construction, installation or alteration of any portion of the stationary source. 567 IAC 22.1(1)

#### **G20. Asbestos**

The permittee shall comply with 567 IAC 23.1(3)"a", and 567 IAC 23.2(3)"g" when activities involve asbestos mills, surfacing of roadways, manufacturing operations, fabricating, insulating, waste disposal, spraying applications, demolition and renovation operations, training fires and controlled burning of a demolished building. 567 IAC 23.1(3)"a", and 567 IAC 23.2

#### **G21. Open Burning**

The permittee is prohibited from conducting open burning, except as may be allowed by 567 IAC 23.2. 567 IAC 23.2 *except* 23.2(3)"h"; 567 IAC 23.2(3)"h" - *State Only*

#### **G22. Acid Rain (Title IV) Emissions Allowances**

The permittee shall not exceed any allowances that it holds under Title IV of the Act or the regulations promulgated there under. Annual emissions of sulfur dioxide in excess of the number of allowances to emit sulfur dioxide held by the owners and operators of the unit or the designated representative of the owners and operators is prohibited. Exceedences of applicable emission rates are prohibited. "Held" in this context refers to both those allowances assigned to the owners and operators by USEPA, and those allowances supplementally acquired by the owners and operators. The use of any allowance prior to the year for which it was allocated is prohibited. Contravention of any other provision of the permit is prohibited. 567 IAC 22.108(7)

#### **G23. Stratospheric Ozone and Climate Protection (Title VI) Requirements**

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:

- a. All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to § 82.106.
- b. The placement of the required warning statement must comply with the requirements pursuant to § 82.108.
- c. The form of the label bearing the required warning statement must comply with the requirements pursuant to § 82.110.
- d. No person may modify, remove, or interfere with the required warning statement except as described in § 82.112.

2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVACs in Subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to § 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to § 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to § 82.161.
- d. Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with reporting and recordkeeping requirements pursuant to § 82.166. ("MVAC-like appliance" as defined at § 82.152)
- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to § 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to § 82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.

4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air Conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of



the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant, 5. The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *40 CFR part 82*

#### **G24. Permit Reopenings**

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition. *567 IAC 22.108(9)"c"*
2. Additional applicable requirements under the Act become applicable to a major part 70 source with a remaining permit term of 3 or more years. Revisions shall be made as expeditiously as practicable, but not later than 18 months after the promulgation of such standards and regulations.
  - a. Reopening and revision on this ground is not required if the permit has a remaining term of less than three years;
  - b. Reopening and revision on this ground is not required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions have been extended pursuant to 40 CFR 70.4(b)(10)(i) or (ii) as amended to May 15, 2001.
  - c. Reopening and revision on this ground is not required if the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. *567 IAC 22.108(17)"a", 567 IAC 22.108(17)"b"*
3. A permit shall be reopened and revised under any of the following circumstances:
  - a. The department receives notice that the administrator has granted a petition for disapproval of a permit pursuant to 40 CFR 70.8(d) as amended to July 21, 1992, provided that the reopening may be stayed pending judicial review of that determination;
  - b. The department or the administrator determines that the Title V permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the Title V permit;
  - c. Additional applicable requirements under the Act become applicable to a Title V source, provided that the reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the source and the source receives approval for coverage under that general permit. Such a reopening shall be complete not later than 18 months after promulgation of the applicable requirement.
  - d. Additional requirements, including excess emissions requirements, become applicable to a Title IV affected source under the acid rain program. Upon approval by the administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.
  - e. The department or the administrator determines that the permit must be revised or revoked to ensure compliance by the source with the applicable requirements. *567 IAC 22.114(1)*
4. Proceedings to reopen and reissue a Title V permit shall follow the procedures applicable to initial permit issuance and shall effect only those parts of the permit for which cause to reopen exists. *567 IAC 22.114(2)*

#### **G25. Permit Shield**

1. The director may expressly include in a Title V permit a provision stating that compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that:
  - a. Such applicable requirements are included and are specifically identified in the permit; or
  - b. The director, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the source, and the permit includes the determination or a concise summary thereof.
2. A Title V permit that does not expressly state that a permit shield exists shall be presumed not to provide such a shield.
3. A permit shield shall not alter or affect the following:
  - a. The provisions of Section 303 of the Act (emergency orders), including the authority of the administrator under that section;
  - b. The liability of an owner or operator of a source for any violation of applicable requirements prior to or at the time of permit issuance;
  - c. The applicable requirements of the acid rain program, consistent with Section 408(a) of the Act;

d. The ability of the department or the administrator to obtain information from the facility pursuant to Section 114 of the Act. *567 IAC 22.108 (18)*

**G26. Severability**

The provisions of this permit are severable and if any provision or application of any provision is found to be invalid by this department or a court of law, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected by such finding. *567 IAC 22.108 (8)*

**G27. Property Rights**

The permit does not convey any property rights of any sort, or any exclusive privilege. *567 IAC 22.108 (9)"d"*

**G28. Transferability**

This permit is not transferable from one source to another. If title to the facility or any part of it is transferred, an administrative amendment to the permit must be sought to determine transferability of the permit. *567 IAC 22.111 (1)"d"*

**G29. Disclaimer**

No review has been undertaken on the engineering aspects of the equipment or control equipment other than the potential of that equipment for reducing air contaminant emissions. *567 IAC 22.3(3)"c"*

**G30. Notification and Reporting Requirements for Stack Tests or Monitor Certification**

The permittee shall notify the department's stack test contact in writing not less than 30 days before a required test or performance evaluation of a continuous emission monitor is performed to determine compliance with applicable requirements of 567 – Chapter 23 or a permit condition. For the department to consider test results a valid demonstration of compliance with applicable rules or a permit condition, such notice shall be given. Such notice shall include the time, the place, the name of the person who will conduct the test and other information as required by the department. Unless specifically waived by the department's stack test contact, a pretest meeting shall be held not later than 15 days prior to conducting the compliance demonstration. The department may accept a testing protocol in lieu of a pretest meeting. A representative of the department shall be permitted to witness the tests. Results of the tests shall be submitted in writing to the department's stack test contact in the form of a comprehensive report within six weeks of the completion of the testing. Compliance tests conducted pursuant to this permit shall be conducted with the source operating in a normal manner at its maximum continuous output as rated by the equipment manufacturer, or the rate specified by the owner as the maximum production rate at which the source shall be operated. In cases where compliance is to be demonstrated at less than the maximum continuous output as rated by the equipment manufacturer, and it is the owner's intent to limit the capacity to that rating, the owner may submit evidence to the department that the source has been physically altered so that capacity cannot be exceeded, or the department may require additional testing, continuous monitoring, reports of operating levels, or any other information deemed necessary by the department to determine whether such source is in compliance.

Stack test notifications, reports and correspondence shall be sent to:

Stack Test Review Coordinator  
Iowa DNR, Air Quality Bureau  
7900 Hickman Road, Suite #1  
Urbandale, IA 50322  
(515) 242-6001

Within Polk and Linn Counties, stack test notifications, reports and correspondence shall also be directed to the supervisor of the respective county air pollution program.

*567 IAC 25.1(7)"a", 567 IAC 25.1(9)*

**G31. Prevention of Air Pollution Emergency Episodes**

The permittee shall comply with the provisions of 567 IAC Chapter 26 in the prevention of excessive build-up of air contaminants during air pollution episodes, thereby preventing the occurrence of an emergency due to the effects of these contaminants on the health of persons. *567 IAC 26.1(1)*

**G32. Contacts List**

The current address and phone number for reports and notifications to the EPA administrator is:

Chief of Air Permits  
EPA Region 7  
Air Permits and Compliance Branch  
901 N. 5<sup>th</sup> Street  
Kansas City, KS 66101  
(913) 551-7020

The current address and phone number for reports and notifications to the department or the Director is:

Chief, Air Quality Bureau  
Iowa Department of Natural Resources  
7900 Hickman Road, Suite #1  
Urbandale, IA 50322  
(515) 242-5100

Reports or notifications to the DNR Field Offices or local programs shall be directed to the supervisor at the appropriate field office or local program. Current addresses and phone numbers are:

**Field Office 1**

909 West Main – Suite 4  
Manchester, IA 52057  
(563) 927-2640

**Field Office 3**

1900 N. Grand Ave.  
Spencer, IA 51301  
(712) 262-4177

**Field Office 5**

401 SW 7<sup>th</sup> Street, Suite I  
Des Moines, IA 50309  
(515) 725-0268

**Polk County Public Works Dept.**

Air Quality Division  
5885 NE 14th St.  
Des Moines, IA 50313  
(515) 286-3351

**Field Office 2**

2300-15th St., SW  
Mason City, IA 50401  
(641) 424-4073

**Field Office 4**

1401 Sunnyside Lane  
Atlantic, IA 50022  
(712) 243-1934

**Field Office 6**

1023 West Madison Street  
Washington, IA 52353-1623  
(319) 653-2135

**Linn County Public Health Dept.**

Air Pollution Control Division  
501 13th St., NW  
Cedar Rapids, IA 52405  
(319) 892-6000

## **V. Appendix:        Acid Rain Phase II Permit**

## **V. Appendix: CAIR Permit**

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